	Application No.	Applicant(s)
Notice of Allowability	10/564,715	HEUSCHER, DOMINIC J.
	Examiner	Art Unit
	Chih-Cheng Glen Kao	2882
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to 7/30/07 and 9/12/07.		
2. The allowed claim(s) is/are <u>1-17,19,20,22-26,28 and 29</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Informal D	Potent Application
 Notice of References Cited (PTO-692) Notice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Informal F 6. ☐ Interview Summary 	• •
	Paper No./Mail Da	te
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendr	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
		•

Art Unit: 2882

EXAMINER'S AMENDMENT

1. An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's

amendment which places this application in condition for allowance. During a telephone

conversation conducted on September 25, 2007, Anthony M. Del Zoppo, III, requested an

extension of time for one MONTH(S) and authorized the Director to charge Deposit Account

No. 14-1270 the required fee of \$120.00 for this extension and authorized the following

examiner's amendment. Should the changes and/or additions be unacceptable to applicant, an

amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an

amendment, it MUST be submitted no later than the payment of the issue fee.

2. The application has been amended as follows:

In claim 1, line 14, replace "x-ray outer" with --outer x-ray--.

In claim 1, last line, replace "representations." with

--representations;

wherein the first asymmetrically adjustable collimator has a fixed

collimation edge that defines the second outer x-ray projection of the first

radiation and an adjustable collimation edge that defines the first outer x-ray

projection of the first radiation,

the second asymmetrically adjustable collimator has a fixed collimation

edge that defines the second outer x-ray projection of the second radiation and an

adjustable collimation edge that defines the first outer x-ray projection of the

second radiation, and

each of the adjustable collimation edges moves between a first position at which the first and second radiation is symmetrical about the rotational center and at least one other position at which the first and second radiation is asymmetrical about the rotational center.--

In claim 4, line 4, replace "detector arrays" with --detectors--.

In claim 4, line 6, replace "detector arrays" with --detectors--.

In claim 15, line 6, replace "detector arrays" with --detectors--.

In claim 15, lines 7-8, replace "detector arrays" with --detectors--.

In claim 17, last line, insert --outside the central region-- after "the voxel".

Cancel claim 18.

In claim 19, line 2, insert a comma after "defining an examination region".

In claim 20, line 7, replace "x-ray outer" with --outer x-ray--.

In claim 22, line 4, in the phrase "second outer", replace "second" with --first--.

In claim 22, line 7, in the phrase "second outer", replace "second" with --first--.

In claim 26, line 4, insert a comma after "central projections".

In claim 26, line 5, delete "the measuring".

In claim 26, line 7, insert a comma after "surrounding projections".

In claim 26, line 8, delete "the measuring".

In claim 26, line 10, delete "and".

Art Unit: 2882

In claim 26, after line 10 and before line 11, insert

-- passing second radiation through the examination region;

measuring central projections, corresponding to rays of second radiation that intersect the central region, using a second high-resolution detector array that has the first spacing of detector elements;

measuring surrounding projections, corresponding to rays of second radiation that intersect the surrounding region without intersecting the central region, using a second low-resolution detector array that has the second spacing of detector elements; and--

In claim 26, line 12, insert -- and the second radiation -- after "to the first radiation".

In claim 26, line 14, insert --the-- before "central projections".

In claim 26, line 14, after "central projections", insert --corresponding to the first radiation and the second radiation--.

In claim 26, line 16, insert --the-- before "central and surrounding".

In claim 26, line 17, before "during reconstructing", insert --corresponding to the first radiation and the second radiation--.

In claim 26, last line, insert --radius-- after "transition".

Cancel claim 27.

In claim 28, line 1, in the phrase "set forth in claim 27", replace "27" with --26--.

In claim 29, line 1, in the phrase "set forth in claim 27", replace "27" with --26--.

Cancel claim 30.

Cancel claim 31.

Art Unit: 2882

Reasons for Allowance

3. Claims 1-17, 19, 20, 22-26, 28, and 29 are allowed. The following is an examiner's

statement of reasons for allowance.

4. Regarding claim 1, the prior art fails to disclose or fairly suggest a computed tomography

imaging system, including wherein a first asymmetrically adjustable collimator has a fixed

collimation edge that defines a second outer x-ray projection of first radiation and an adjustable

collimation edge that defines a first outer x-ray projection of the first radiation, the second

asymmetrically adjustable collimator has a fixed collimation edge that

defines a second outer x-ray projection of second radiation and an adjustable

collimation edge that defines a first outer x-ray projection of the second radiation, and each of

the adjustable collimation edges moves between a first position at which the first and second

radiation is symmetrical about the rotational center and at least one other position at which the

first and second radiation is asymmetrical about a rotational center, in combination with all of the

other limitations in the claim. Claims 2-17 are allowed by virtue of their dependency.

5. Regarding claim 19, the prior art fails to disclose or fairly suggest a computed

tomography imaging system, including a single unitary radiation detector array including: a

central high resolution portion defined by high resolution portions of first and second radiation

detector arrays, a first outer low resolution portion defined by a low resolution portion of the first

radiation detector array, and a second outer low resolution portion defined by a low resolution

Art Unit: 2882

portion of the second radiation detector array, wherein the central high resolution portion is

arranged between the first and second outer low resolution portions, in combination with all of

the other limitations in the claim. Claims 20 and 22-25 are allowed by virtue of their

dependency.

6. Regarding claim 26, the prior art fails to disclose or fairly suggest a computed

tomography imaging method, including wherein reconstructing includes combining 90°

contiguous angular segments of central projections corresponding to first radiation and second

radiation during reconstructing of voxels within a central region, and 180° contiguous angular

segments of central and surrounding projections corresponding to the first radiation and the

second radiation during reconstructing of voxels in a surrounding region outside a transition

radius, in combination with all of the other limitations in the claim. Claims 28 and 29 are

allowed by virtue of their dependency.

7. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Application/Control Number: 10/564,715

Art Unit: 2882

Conclusion

Any inquiry concerning this communication or earlier communications from the

Page 7

examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (571) 272-

2492. The examiner can normally be reached on M - F (9 am to 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chih-Cheng Glen Kao Primary Examiner

Art Unit 2882

Copied from 11564715 on 12/12/2007